Curriculum vitae

JENS BREDAL NIELSEN, R., PhD, dr.techn., dr.med.h.c.

BioInnovation Institute, Ole Maaløes Vej 3, DK2200 Copenhagen N, Denmark Department of Biology and Biological Engineering, Chalmers University of Technology, Kemigården 4, SE-412 96 Gothenburg, Sweden

Tel: +45 4172 7930; E-mail: jni@bii.dk & nielsenj@chalmers.se

| Damasmal | information | |
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| Personai | Information | |

| Date of birth: | November 17 th , 1962. |
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| Place of birth: | Horsens, Denmark |
| Citizenship: | Danish and Swedish |
| ResearcherId: | Q-1347-2017 |
| ORCID ID: | 0000-0002-9955-6003 |

Degrees

| 1986 | M.Sc. in Chemical Engineering, DTU, Denmark | |
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| 1989 | Ph.D. in Biochemical Engineering, Department of Biotechnology, DTU, Denmark | |
| 1995 | dr techn DTU Denmark | |

Positions

| 1986 | Research Assistant , School of Engineering, University of Western Ontario, Canada |
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| 1987-1989 | PhD student, Department of Biotechnology, DTU, Denmark |
| 1989 | Post doc, Institut für Technische Chemie, Universität Hannover, Germany |
| 1990-1995 | Associate Research Professor, Department of Biotechnology, DTU, Denmark |
| 1995-1996 | Visiting Professor, Department of Chemical Engineering, MIT, USA |
| 1996-1998 | Associate Professor, Department of Biotechnology, DTU, Denmark |
| 1998-2008 | Professor, BioCentrum, DTU, Denmark |
| 2005-2011 | Adjunct Professor, Department of Biotechnology, NTNU, Norway |
| 2008-2015 | Professor, Department of Chemical and Biological Engineering, Chalmers, Sweden |
| 2011-2019 | Professor, Novo Nordisk Foundation Centre for Biosustainability, DTU, Denmark |
| 2012-2017 | Adjunct Professor, Department of Biotechnology, Royal Institute of Technology (KTH), Sweden |
| 2013-2019 | CSO, Novo Nordisk Foundation Centre for Biosustainability, DTU, Denmark |
| 2015 | Founding Head of Department, Department of Biology and Biological Engineering (now Department |
| | of Life Sciences), Chalmers, Sweden (served 9 months as Head of Department and structured a |
| | department of 150 people) |
| 2015- | Professor, Department of Life Sciences, Chalmers, Sweden |
| 2016-2019 | Adjunct Professor, Beijing University of Chemical Technology (BUCT), China |
| 2019- | CEO, BioInnovation Institute, Copenhagen, Denmark |
| 2019- | Adjunct Professor, DTU, Denmark |
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Academies

2023-

| Academies | |
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| 1997 | Member of the Academy of Technical Sciences, Denmark |
| 2010 | National Academy of Engineering, USA |
| 2010 | Member of the Royal Danish Academy of Science and Letters, Denmark |
| 2010 | Member of the Royal Swedish Academy of Engineering Sciences, Sweden |
| 2011 | College of Fellows of American Institute for Medical and Biological Engineering, USA |
| 2012 | Member of Royal Society of Arts and Sciences in Gothenburg, Sweden |
| 2012 | Fellow of the American Academy of Microbiology, USA |
| 2014 | Member of the Royal Swedish Academy of Sciences, Sweden |
| 2019 | National Academy of Sciences, USA |
| 2019 | Royal Physiographic Society of Lund, Sweden |
| 2019 | Chinese Academy of Engineering, China |
| 2023 | National Academy of Medicine, USA |
| | |

Adjunct Professor, Faculty of Medicine, University of Copenhagen, Denmark

Academic Honors

| 1995 | Fulbright Fellow, USA |
|------|--|
| 2014 | Honorary Professor, Beijing University of Chemical Technology, Beijing, China |
| 2015 | Honorary Professor, Dalian Institute for Chemical Physics, Chinese Academy of Science, China |
| 2017 | Honorary Professor, East China University of Science and Technology, Shanghai, China |

| 2019 | Honorary Professor, Jiangnan University, Wuxi, China |
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| 2019 | Honorary Professor, Tianjin University, Tianjin, China |
| 2019 | Honorary Professor, Nankai University, Tianjin, China |
| 2023 | Honorary Doctor in Medicine, Sahlgrenska, Gothenburg University, Sweden |
| 2024 | Honorary Doctor in Technology, Royal Institute of Technology, Sweden |
| Awards | |
| 1989 | Direktør Gorm Petersen's Mindelegat, Denmark |
| 1994 | Ulrik Brinch og Hustru Marie Brinch's legat, Denmark |
| 1996 | STVFs Jubilæumspris, Statens Teknisk Videnskabelige Forskningsråd, Denmark |
| 2001 | Aksel Toyborg Jensens Legat, Bjerrum-Brøndsted-Lang Lecture, Carlsberg Foundation, Denmark |
| 2002 | Villum Kann Rasmussen's Årslegat, Villum Kann Rasmussen Fonden, Denmark |
| 2004 | Merck Award for Metabolic Engineering, USA |
| 2011 | Amgen Biochemical Engineering Award, USA |
| 2012 | Charles D. Scott Award 2012, Symposium on Biotechnology for Fuels and Chemicals, USA |
| 2012 | Nature Award for Mentoring, Nature Publishing Group, UK |
| 2013 | Norblad-Exstrand Medalj, The Swedish Chemical Society, Sweden |
| 2016 | Gaden Award, American Chemical Society, USA |
| 2016 | Novozymes Prize, Novo Nordisk Foundation, Denmark |
| 2017 | ENI Award, ENI, Italy |
| 2017 | Gold Medal, Royal Swedish Academy of Engineering Sciences, Sweden |
| 2017 | Eric and Sheila Samson Prime Ministers Prize for Innovation in Alternative Fuels for |
| | Transportation, Fuels and Smart Mobility Initiative, Israel |
| 2019 | Emil Chr. Hansen's Gold Medal for Microbiological Research, Denmark |
| 2019 | Arvid Carlsson Award, Sahlgrenska Science Park, Sweden |
| 2019 | James E. Bailey Award, American Institute for Chemical Engineering, USA Gregory Stephanopoulos Award for Metabolic Engineering, IMES, USA |
| 2020 | Gregory Stephanopolitos Award for Wetabouc Engineering TWES USA |
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| 2021 | The Chinese's Government's Friendship Award, Chinese Government, China |
| 2021 2023 | The Chinese's Government's Friendship Award, Chinese Government, China Julius Thomsen Gold Medal for Technical Chemisty, DTU, Denmark |
| 2021 2023 2023 | The Chinese's Government's Friendship Award, Chinese Government, China Julius Thomsen Gold Medal for Technical Chemisty, DTU, Denmark Chalmers Medal, Chalmers, Sweden |
| 2021 2023 2023 2023 | The Chinese's Government's Friendship Award, Chinese Government, China Julius Thomsen Gold Medal for Technical Chemisty, DTU, Denmark Chalmers Medal, Chalmers, Sweden Zhongguancun Award for International Collaboration, Beijing Government, China |
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| 2021 2023 2023 2023 Other Honors 2002 2004 2010 2014 2015 2015, 2016 2017 2017, 2018 2019 2019-2022 2020 2020 2020 2022-2023 Academic Ap 1994-1999 1995-2000 | The Chinese's Government's Friendship Award, Chinese Government, China Julius Thomsen Gold Medal for Technical Chemisty, DTU, Denmark Chalmers Medal, Chalmers, Sweden Zhongguancun Award for International Collaboration, Beijing Government, China S Sunner Memorial Lecture, Lund University, Sweden Hough Memorial Lecture, Birmingham University, UK Appointed as Wallenberg Scholar, Sweden William Chalmers Lecture, Chalmers University of Technology, Sweden Zhang Dayu Lectureship, Dalian Institute for Chemical Physics, Chinese Academy of Science, China Highly Cited Researcher, Thomson Reuter Adjunct Professor, Jiangnan University, Wuxi, China Highly Cited Researcher, Clarivate Ridder af Dannebrog (Knight of the order of Dannebrog), Queen Margrethe II, Denmark Peiyang Lectureship, Tianjin University, Tianjin, China Highly Cited Researcher, Web-of-Science Most cited researcher on fungi in the World over the period 2010-2020, ExpertScape The KAIST CBE Global Distinguished Lectureship, KAIST, South Korea 1st Most cited and highest H-index in biology and biochemistry in Sweden, Research.com Opointments and Merits Founding Chairman, Danish Biotechnological Forum, Denmark Deputy Director, Center for Process Biotechnology, DTU, Denmark |
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| 2021 2023 2023 2023 2023 Other Honors 2002 2004 2010 2014 2015 2015, 2016 2017 2017, 2018 2019 2019-2022 2020 2020 2022-2023 Academic Ap 1994-1999 1995-2000 1995-1998 1998-2002 2001-2003 2001-2003 2002 2002-2007 2002-2008 | The Chinese's Government's Friendship Award, Chinese Government, China Julius Thomsen Gold Medal for Technical Chemisty, DTU, Denmark Chalmers Medal, Chalmers, Sweden Zhongguancun Award for International Collaboration, Beijing Government, China S Sunner Memorial Lecture, Lund University, Sweden Hough Memorial Lecture, Birmingham University, UK Appointed as Wallenberg Scholar, Sweden William Chalmers Lecture, Chalmers University of Technology, Sweden Zhang Dayu Lectureship, Dalian Institute for Chemical Physics, Chinese Academy of Science, China Highly Cited Researcher, Thomson Reuter Adjunct Professor, Jiangnan University, Wuxi, China Highly Cited Researcher, Clarivate Ridder af Dannebrog (Knight of the order of Dannebrog), Queen Margrethe II, Denmark Peiyang Lectureship, Tianjin University, Tianjin, China Highly Cited Researcher, Web-of-Science Most cited researcher on fungi in the World over the period 2010-2020, ExpertScape The KAIST CBE Global Distinguished Lectureship, KAIST, South Korea 1st Most cited and highest H-index in biology and biochemistry in Sweden, Research.com spointments and Merits Founding Chairman, Danish Biotechnological Forum, Denmark Deputy Director, Center for Process Biotechnology, DTU, Denmark Co-ordinator, Physiological Engineering, Nordic Industrial Fund Co-ordinator, NordPhys, Nordic Industrial Fund Director, Center for Process Biotechnology, DTU, Denmark Board Member, Center for BioProcess Technology, KTH, Sweden Evaluation Panel, Dutch genomics initiative (50 million EUR) SAB Member, Kluywer Center for Genomics of Industrial Fermentations, TU Delft, The Netherlands SAB Member, Max-Planck Institute for Dynamic of Complex Technical Systems, Germany |

| 2004- | Advisory Board, Society for Biological Engineering, USA |
|---|--|
| 2005 | Chairman of Evaluation Committee, HepatoSys, Germany |
| 2005-2008 | Co-ordinator, Yeast Systems Biology Network, EU Framework VI |
| 2006-2007 | Founder and Board Member, Danish Biotechnological Society, Denmark |
| 2008-2011 | Member of Review Panel of SystemsX.ch, Switzerland (100 million CHF) |
| 2008-2011 | Co-ordinator, Systems Biology as a Driver for Industrial Biotechnology, EU Framework VII |
| 2009-2014 | SAB Member, Netherlands Institute for Systems Biology, The Netherlands |
| 2010-2016 | Director Area of Advance Life Science, Chalmers University of Technology, Sweden |
| 2010-2019 2011-2012 | Member of World Council for Industrial Biotechnology, World Economic Forum Member of Industrial Biotechnology and Bioenergy Strategy Advisory Panel, BBSRC, UK |
| 2011-2012 | Presidential appointed evaluator of Humbolt University, Germany |
| 2011 | Member of DoE Evaluation Panel for Joint Bioenergy Institute, USA |
| 2011- | Swedish Delegate in International Commission of Yeast (ICY) |
| 2011-2015 | National Reference Committee, Science for Life Laboratory, Stockholm, Sweden |
| 2012-2014 | Scientific Advisory Board Universeum Science Museum, Gothenburg, Sweden |
| 2012-2022 | Founding president of International Metabolic Engineering Society, USA |
| 2012 | 4th Most cited European researcher in the field of Mycology |
| 2012-2013 | Evaluation panel of Academy of Finland, Finland |
| 2012-2014 | International Advisory Board, Thailands National Center for Genetic Engineering and |
| | Biotechnology, Bangkok, Thailand |
| 2014 | Scientific Advisory Board, Energy Biosciences Institute, UC Berkeley, Berkeley, USA |
| 2015-2018 | Advisory Board, Gothia Forum, Sahlgrenska University Hospital, Gothenburg, Sweden |
| 2016-2019 | Director of Life Science, Beijing Advanced Center for Soft Matter Science and Engineering, Beijing |
| 2016 2010 | University of Chemical Technology, China |
| 2016-2019 | Advisory Committee, Joint Bioenergy Institute, Lawrence Berkeley Laboratory, USA |
| 2016-2019 | Committee chairman for Novozymes Award for Excellence in Biochemical and Chemical |
| 2016- | Engineering, Novozymes, Denmark Novozymes Prize award committee, Novo Nordisk Foundation, Denmark (chairman 2018-2019) |
| 2018-2022 | F1000 Faculty, F1000Prime |
| 2023 | Most cited researcher in Biology and Biochemistry in Sweden, Research.com |
| | WIUNI CHEU LENEALCHEL III DIUIURV AHU DIUCHEHINGI VIII NWEUEH. NENEALCHICOHI |
| | · |
| Memberships | in Societies |
| Memberships 1986- | The Danish Society for Engineers, Denmark |
| Memberships 1986- 1996- | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA |
| Memberships 1986- 1996- 2001- | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA |
| Memberships 1986- 1996- 2001- 2004- | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA |
| Memberships 1986- 1996- 2001- 2004- 2004- | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA |
| Memberships 1986- 1996- 2001- 2004- | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA |
| Memberships 1986- 1996- 2001- 2004- 2004- 2006- 2012- | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA |
| Memberships 1986- 1996- 2001- 2004- 2004- 2006- 2012- Publications, | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations |
| Memberships 1986- 1996- 2001- 2004- 2004- 2006- 2012- Publications, Google Schola | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations ar: H-factor of 159; >122,000 citations and >60,000 citations since 2019 |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations Ur: H-factor of 159; >122,000 citations and >60,000 citations since 2019 We Highly Cited Researcher in 2015-2023 |
| Memberships 1986- 1996- 2001- 2004- 2004- 2006- 2012- Publications, Google Schola | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations ar: H-factor of 159; >122,000 citations and >60,000 citations since 2019 |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations 107: H-factor of 159; >122,000 citations and >60,000 citations since 2019 108 te Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 139 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations ar: H-factor of 159; >122,000 citations and >60,000 citations since 2019 be Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schola Web of Science 711 139 33 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations Ir: H-factor of 159; >122,000 citations and >60,000 citations since 2019 We Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 139 33 49 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations Ir: H-factor of 159; >122,000 citations and >60,000 citations since 2019 We Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 139 33 49 3 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations Ir: H-factor of 159; >122,000 citations and >60,000 citations since 2019 We Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) Monograph |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 139 33 49 3 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations Ir: H-factor of 159; >122,000 citations and >60,000 citations since 2019 We Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) Monograph Edited books |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 139 33 49 3 1 4 38 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations Ir: H-factor of 159; >122,000 citations and >60,000 citations since 2019 We Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) Monograph Edited books Issued patents (8 patent families) |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 139 33 49 3 1 4 38 36 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations Ir: H-factor of 159; > 122,000 citations and > 60,000 citations since 2019 We Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) Monograph Edited books Issued patents (8 patent families) Patent applications (15 patent families) |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 139 33 49 3 1 4 38 36 239 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations In: H-factor of 159; >122,000 citations and >60,000 citations since 2019 We Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) Monograph Edited books Issued patents (8 patent families) Patent applications (15 patent families) Invited oral presentations at international conferences |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 139 33 49 3 1 4 38 36 239 146 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations Ir: H-factor of 159; > 122,000 citations and > 60,000 citations since 2019 We Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) Monograph Edited books Issued patents (8 patent families) Patent applications (15 patent families) |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 139 33 49 3 1 4 38 36 239 146 Key Grants | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations Ir: H-factor of 159; > 122,000 citations and > 60,000 citations since 2019 e Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) Monograph Edited books Issued patents (8 patent families) Patent applications (15 patent families) Invited oral presentations at international conferences Invited seminars at universities and companies |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 139 33 49 3 1 4 38 36 239 146 Key Grants 1993-1996 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations In: H-factor of 159; > 122,000 citations and >60,000 citations since 2019 Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) Monograph Edited books Issued patents (8 patent families) Patent applications (15 patent families) Invited oral presentations at international conferences Invited seminars at universities and companies Nordic Project on Physiological Engineering, Nordic Industrial Fund (>20 MDKK) |
| Memberships 1986- 1996- 2001- 2004- 2004- 2012- Publications, Google Schold Web of Science 711 139 33 49 3 1 4 38 36 239 146 Key Grants 1993-1996 1995-2002 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations W.: H-factor of 159; >122,000 citations and >60,000 citations since 2019 W.: H-factor of 159; >122,000 citations and >60,000 citations since 2019 W.: H-factor of 159; >122,000 citations and >60,000 citations since 2019 W.: Holy Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) Monograph Edited books Issued patents (8 patent families) Patent applications (15 patent families) Invited oral presentations at international conferences Invited oral presentations at international conferences Invited seminars at universities and companies Nordic Project on Physiological Engineering, Nordic Industrial Fund (>20 MDKK) 4 Projects, EU Framework VI (about 8 MDKK) |
| Memberships 1986- 1996- 2001- 2004- 2006- 2012- Publications, Google Schold Web of Science 711 139 33 49 3 1 4 38 36 239 146 Key Grants 1993-1996 | The Danish Society for Engineers, Denmark Member of American Association for the Advancement of Science, USA Society for Industrial Microbiology, USA American Chemical Society, USA Society for Biological Engineering, USA American Society for Microbiology, USA International Metabolic Engineering Society, USA Patents, Presentations and Citations In: H-factor of 159; > 122,000 citations and >60,000 citations since 2019 Highly Cited Researcher in 2015-2023 Original Papers in Peer Reviewed Journals Review Papers in Peer Reviewed Journals Commentaries in peer reviewed journals Book Chapters Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) Monograph Edited books Issued patents (8 patent families) Patent applications (15 patent families) Invited oral presentations at international conferences Invited seminars at universities and companies Nordic Project on Physiological Engineering, Nordic Industrial Fund (>20 MDKK) |

| 1999-2003 | DABIC , Danish Technical Research Council (18 MDKK) |
|----------------|--|
| 2000-2007 | 6 Projects, EU Framework V (about 15 MDKK) |
| 2003-2007 | Heterologous production of polyketides, Danish Technical Research Council (2.8 MDKK) |
| 2004-2008 | Center for Microbial Biotechnology, Danish Technical Research Council (36 MDKK) |
| 2005-2009 | 3 Projects, EU Framework VI (about 8.5 MDKK) |
| 2005-2008 | Genome sequencing of A. balhamycina, Lundbech Foundation (1.2 MDKK) |
| 2005-2008 | Yeast Systems Biology Network, EU Framework VI (1.3 MEUR) |
| 2006-2008 | Yeast in No Gravity, European Space Agency (2.7 MDKK) |
| 2007-2009 | Systems Biology: From model organisms to application, NORDFORSK (0.8 MNOK) |
| 2008-2011 | Systems Biology as a Driver for Industrial Biotechnolog, EU Framework VII (1 MEUR) |
| 2008-2013 | UNICELLSYS, EU Framework VII (5.4 MSEK) |
| 2009-2011 | Regulation of lipid metabolism in eukaryotic cells, Vetenskapsrådet (3 MSEK) |
| 2010-2014 | Industrial Systems Biology, European Research Council (2.5 MEUR) |
| 2010-2013 | Systems Biology of Metabolism, NORDFORSK (0.6 MNOK) |
| 2011-2020 | Wallenberg Scholar, Knut and Alice Wallenberg Foundation (15 MSEK+15 MSEK) |
| 2011-2020 | NNF Center for Biosustainability, Novo Nordisk Foundation (60 MDKK) |
| 2012-2015 | Engineering of Acetyl-CoA Metabolism in Yeast, Vetenskapsrådet (6.4 MSEK) |
| 2012-2014 | Platform for studying metagenomes and metabolic diseases, Torsten Söderbergs Stiftelse (5 MSEK) |
| 2012-2014 | BioVacSafe, Innovative Medicines Initiative, EU (10.0 MSEK) |
| 2012-2017 | Excellence Center for Metabolic Engineering, FORMAS (25 MSEK) |
| 2012-2017 | MetaCardis, EU Framework VII (7.5 MSEK) |
| 2012-2017 | Advanced Biofuel Production by Oleagenous Yeast, Department of Energy, USA (2 MUSD) |
| 2013-2016 | Biobased production of diesel and jetfuel, Vetenskapsrådet (17 MSEK) |
| 2013-2016 | Mathematical modelling of tissue metabolism in response to malnutrition, Bill & Melinda Gates |
| 2014-2010 | Foundation (1 MUSD) |
| 2014-2017 | YeastCell, ITN Marie Curie, EU Framework VII (3 MSEK) |
| 2014-2017 | QuantFung, ITN Marie Curie, EU Framework VII (5 MSEK) |
| 2015-2017 | 3 Projects, ERA-SysApp and ERA-Pathogen, EU Framework VII (9 MSEK) |
| 2015-2019 | Biotechnological Production of High-Value Added Ingredients, Stiftelsen for Strategisk Forskning |
| 2013-2019 | (32 MSEK) |
| 2016-2019 | Genome-scale transcriptional regulation in yeast, Vetenskapsrådet (4.4 MSEK) |
| 2016-2017 | Gut-microbiome effect on CVD, Novo Nordisk Foundation (9 MDKK) |
| 2016-2019 | Wallenberg Center for Protein Research, Knut and Alice Wallenberg Foundation (20 MSEK) |
| 2016-2019 | CHASSY, Horizon2020 (7 MSEK) |
| 2016-2020 | DD-DeCaF, Horizon2020 (8.5 MSEK) |
| 2016-2020 | PacMEN, ITN Marie Curie, Horizon2020 (6 MSEK) |
| 2017-2018 | Proof-of-Concept of cancer biomarkers, Knut and Alice Wallenberg Foundation (4.5 MSEK) |
| 2017-2018 | Biobased production of diesel and jetfuels, Energimyndigheten (4 MSEK) |
| 2017-2023 | Systems biology of the eukaryal protein secretion pathway, Stiftelsen for Strategisk Forskning (34 |
| 2017 2023 | MSEK) |
| 2018-2019 | Proof-of-Concept of cancer biomarkers , Knut and Alice Wallenberg Foundation (5 MSEK) |
| 2018-2023 | CellNova, Vinnova (9 MSEK) (co-PI together) |
| | |
| Editorial Acti | |
| 1999 | Chemical Engineering Science, Guest editor of special volume |
| 1999-2019 | Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief |
| 1000 | (2018-2019) Applied Microbiology and Biotechnology, Editorial Board |
| 1999- | |
| 2000-2018 | Bioprocess and Biosystems Engineering, Assoc. Editor (2000-2007), Editorial Board (2007-2018) |
| 2001-2016 | Biotechnology and Bioengineering, Assoc. Editor EFMS Vacat Basearch, Editorial Based (2001, 2007), Assoc. Editor (2007, 2010) |
| 2001-2019 | FEMS Yeast Research, Editorial Board (2001-2007), Assoc. Editor (2007-2019), |
| 2004- | Editor-in-Chief (2011-2019) Journal of Industrial Microbiology and Biotechnology, Editorial Board (2004-2010), |
| 2004- | |
| 2004- | Senior Editor (2010-2015), Editorial Board (2015-) Advances in Biochemical Engineering/Biotechnology , Editorial Board |
| 2004- | Microbial Cell Factories, Advisory Board |
| 2008- | Microbial Biotechnology, Editorial Board |
| 2009- | Biotechnology Journal, Editorial Board |
| 2010- | ACS Synthetic Biology, Editorial Board |
| 2012- | Wiley-Blackwell Advanced Biotechnology Book series (3. Edition), Editor-in-Chief |
| 2013- | Triney Diack well fautaneed Dioceciniology Dook Series (J. Landon), Eantor-in-Chief |

| 2015-2020 | Cell Systems, Editorial Board |
|-----------|--|
| 2015-2018 | Scientific Reports, Editorial Board |
| 2015- | Synthetic and Systems Biotechnology, Editorial Board |
| 2016-2018 | PLOS Computational Biology, Associate Editor (2016-2018) |
| 2016- | Current Opinion of Systems Biology, Editorial Board |
| 2016-2022 | Applied and Environmental Microbiology, Editorial Board |
| 2017- | Cell Stress, Editorial Board |
| 2017- | Biotechnology and Bioprocess Engineering, Editorial Board |
| 2019- | Frontiers in Chemical Science and Engineering, Editorial Board |
| 2020- | QRB Discovery , Editorial Board |

Teaching

Jens Nielsen has organized more than 15 advanced courses on metabolic engineering and systems biology in Denmark, Sweden, Thailand, China and Chile, and he has been teaching in several different courses at all levels in the areas of biotechnology, fermentation technology, bioreaction engineering, metabolic engineering and systems biology. Currently examiner of the MSc courses KMG060 Systems Biology and KKR063 Metabolic Engineering at Chalmers.

Prof Nielsen has extensive experience with developing, organizing and running new courses and he has been actively involved in the design of new teaching programs at both the BSc and MSc level in the field of biotechnology and systems biology.

Mentoring

| 0 | |
|---|-----|
| Main supervisor of graduated PhD students | 101 |
| Main supervisor of <i>current</i> PhD students | 2 |
| Co-supervisor of graduated PhD students (including visiting PhD students and as Examiner) | 55 |
| Former affiliated post docs | 115 |
| Current affiliated post docs | 1 |
| Former other affiliated staff | 47 |

Business Experience

| Dusiness Exp | erience |
|--------------|--|
| 1992- | Collaboration with industry; collaborated with more than 15 different companies in Austria, |
| | Denmark, France, Germany, The Netherlands, Sweden, Switzerland and USA. Cumulative funding |
| | from industry to my research group exceeds 30 MSEK. |
| 1996- | Consultant for several internationally leading biotech and pharmaceutical companies |
| 1997-2001 | N&N Biotechn ApS , Denmark, Founder and CEO (acquired by Fluxome A/S) |
| 2002-2005 | Symbion Venture Capital, Denmark, Member of Scientific Advisory Board |
| 2002-2012 | Fluxome A/S, Denmark (major activities acquired by Evolva SA in 2012); A yeast metabolic |
| | engineering company. Founder and involved in raising >25 MEUR in capital, CEO (2002-2004), CSO |
| | (2002-2008), Member of BoD (2002-2005 & 2008-2012), Chairman of SAB (2008-2012). The |
| | company brought yeast produced resveratrol to the market. |
| 2002-2007 | Gothia Yeast Solutions, Sweden, Member of SAB |
| 2006-2011 | MycoTeQ A/S, Denmark. An antibiotics discovery company. Founder and Chairman of BOD; Raised |
| | about 1 MEUR in capital, one novel antibiotic identified |
| 2008-2010 | GlycoFi, Inc., USA, Member of SAB |
| 2008-2015 | Genomatica, Inc., USA, Member of SAB |
| 2011-2018 | MetaboGen AB, Sweden. A human gut microbiome company. Founder and Member of BoD; Raised |
| | >4 MEUR in capital. Sold to Biogaia AB in 2018 |
| 2013-2018 | Evolva SA, Switzerland, Member of SAB |
| 2014- | Melt&Marble AB, Sweden (former Biopetrolia AB). A yeast synthetic biology company. Founder and |
| | Chairman of BoD; Raised 7 MEUR in VC capital and soft funding. |
| 2014-2018 | Novogy Inc., USA, Member of SAB |
| 2017- | Elypta AB, Sweden. A cancer diagnostic company. Founder, Chairman of BoD (2017-2018) and |
| | member of BoD (2018-). Raised >35 MEUR in VC capital and soft funding. |
| 2019- | Chrysea Labs Inc., Ireland. A yeast synthetic biology company. Founder. Raised >8 MEUR in VC |

Organization of Conferences

capital.

| 1990- | Member of organizing and scientific committee of more than 50 conferences |
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| 2000 | ESBES3, Denmark, Chairman (~300 delegates) |
| 2002 | Analysis of Microbial Cells at the Single Cell Level, Denmark, Co-Chair (~100 delegates) |
| 2002 | Metabolic Engineering IV, Italy, Chairman (~250 delegates) |
| 2004 | European Conference on Fungal Genetics VI, Denmark, Co-Chair (~800 delegates) |

| 2005 | ECB12, Denmark, Chairman of Scientific Committee (~1200 delegates) |
|------|---|
| 2008 | ICSB2008, Sweden, Member of Organizing Committee (~1000 delegates) |
| 2010 | FEBS2010, Sweden, Member of Organizing Committee (~2000 delegates) |
| 2010 | Industrial Systems Biology 2010, Sweden, Chairman (~200 delegates) |
| 2011 | Key Symposium on Systems Medicine, Sweden, Chairman (~100 delegates) |
| 2013 | Copenhagen Bioscience Conference, Denmark, Co-Chairman (~150 delegates) |
| 2015 | Copenhagen Bioscience Conference, Denmark, Chairman (~150 delegates) |
| 2017 | Metabolic Engineering Summit, Beijing, China (~600 delegates) |
| 2019 | Copenhagen Bioscience Conference, Denmark, Chairman (~150 delegates) |